



## Taxonomy & Inventories

# Checklist of the family Zopheridae (Coleoptera, Tenebrionoidea) of Bulgaria

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Academic editor: Paulo Borges

Received: 18 Mar 2026 | Accepted: 14 Apr 2026 | Published: 28 Apr 2026

Citation: Gradinarov D, Petrova Y, Sivilov O, Stefanov V (2026) Checklist of the family Zopheridae (Coleoptera, Tenebrionoidea) of Bulgaria. Biodiversity Data Journal 14: e192174. <https://doi.org/10.3897/BDJ.14.e192174>

## Abstract

## Background

Beetles of the family Zopheridae (Coleoptera, Tenebrionoidea) are rarely reported from Bulgaria and available data on their distribution in the country are scarce. Here, we provide an updated checklist of the family, based on published data and new records.

## New information

Twenty-one species of the family Zopheridae are listed for Bulgaria. New data on the distribution of fourteen species are provided. The species *Colydium noblecourtii* Parmain, Eckelt & Schuh, 2024 is reported for the first time for the country. The presence of the species *Aulonium trisulcum* (Geoffroy, 1785), *A. ruficorne* (G.-A. Olivier, 1790), *Orthocerus clavicornis* (Linnaeus, 1758), *Langelandia anophthalma* Aubé, 1842 and *Synchita mediolanensis* A. Villa & J. B. Villa, 1833 is confirmed for Bulgaria.

## Keywords

Tenebrionoidea, Zopheridae, distribution, Bulgaria

## Introduction

According to the second edition of the Catalogue of Palaearctic Coleoptera, 16 species of the family Zopheridae (Coleoptera, Tenebrionoidea) are known for Bulgaria (Schuh 2020). However, some of the species records of earlier authors are omitted in the Catalogue and, for other species, there are no available published localities from Bulgaria (Guéorguiev et al. 2026). Species of Zopheridae are rarely reported from Bulgaria and special taxonomic or faunistic studies of the family in the country have not been yet conducted.

In the present work, we summarise all available literature records of the species of Zopheridae in Bulgaria and provide new distributional data for fourteen species. Original photographs of all examined species are provided. The prepared checklist also contains updated data on the global distribution of each species.

## Materials and methods

The main part of the material for this study was collected by the authors in the period 1999 – 2025 from different regions of Bulgaria. Materials of other collectors, preserved in the Zoological Collection of Sofia University “St Kliment Ohridski”, Faculty of Biology, Sofia, Bulgaria (BFUS), are also examined. The newly-collected specimens are catalogued and deposited in the BFUS collection.

The identification of the newly-collected material was carried out by external morphology characteristics and, in cases where this was necessary, by the morphology of the male genitalia. The identification keys available in Kryzhanovsky (1965); Ivie et al. (2016); Lompe (2026) were used, as well as revisions and taxonomic studies of the genera and species, as follows: Węgrzynowicz (1999); Parmain et al. (2024) (for the genus *Colydium* Fabricius, 1792); Dajoz (1971); Jelínek (1981); Soldati et al. (2018) (for the genus *Bitoma* Herbst, 1793); Reitter (1912); Dajoz (1968); Dajoz (1969); Orousset (1989) (for the genus *Langelandia* Aubé, 1842); Schuh (1998); Ruta (2020) (for the genus *Synchita* Hellwig, 1792).

The historical collection of Dimitar Joakimov, preserved in the Entomological collection of the National Museum of Natural History, Sofia, Bulgaria (NMNHS) was examined to clarify the species composition of the genus *Colydium* Fabricius, 1792 in Bulgaria.

The photographs of the beetles were taken with a Canon EOS R50 camera with Laowa 25 mm f/2.8 2.5-5X Ultra Macro or Laowa 90 mm f/2.8 2x Ultra Macro APO lens, mounted on a WeMacro rail (Wemacro, Shanghai, China). The photographs of genital structures

were taken with a Canon EOS R50 camera with Laowa Aurogon FF 10-50X NA0.5 Supermicro APO lens or with Leica K3C camera attached to Leica DM750 microscope.

## Checklist of the Zopheridae of Bulgaria

### Order Coleoptera Linnaeus, 1758

### Superfamily Tenebrionoidea Latreille, 1802

### Family Zopheridae Solier, 1834

### Subfamily Zopherinae Solier, 1834

### Tribe Pycnomerini Erichson, 1845

### Genus *Pycnomerus* Erichson, 1842

### *Pycnomerus sulcicollis* (Germar, 1823)

#### Materials

- a. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000728; recordedBy: Plamen Mitov, Romyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EB39599A-F863-5DA2-AAA6-94A37D84D018
- b. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000729; recordedBy: Plamen Mitov, Romyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 40551079-9583-5E41-B7D3-74084D638B76
- c. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000730; recordedBy: Plamen Mitov, Romyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 6C387AF2-D375-5C72-B8FD-F3ED15354219
- d. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude:

- 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000731; recordedBy: Plamen Mitov, Rummyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: ABAD9BF6-6A72-5CB7-B762-22A1C2DEF1D2
- e. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000732; recordedBy: Plamen Mitov, Rummyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CCA76659-7709-5440-8E31-D6369BAF0437
- f. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000733; recordedBy: Plamen Mitov, Rummyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C45B4517-5895-5CC5-9083-0A87D6EAE56A
- g. country: Bulgaria; stateProvince: Burgas; municipality: Tsarevo; locality: Strandzha Mountains, NE of Balgari Village; verbatimElevation: 180 m; decimalLatitude: 42.111583; decimalLongitude: 27.764717; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 8.v.2009–08.vi.2009; habitat: beech-oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000734; recordedBy: Plamen Mitov, Rummyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CF65BB12-E551-560F-BA0E-BFF8E9640A6B
- h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–15.v.2012; habitat: deciduous forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000735; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: E5E273DE-D0C9-51A0-B313-AA9E338ED2AB
- i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.v.2012–16.vi.2012; habitat: deciduous forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000736; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D83CC546-DE86-574C-9971-5492595F1732
- j. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.vi.2012–18.vii.2012; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000737; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9FA65618-9B85-58AE-8237-4063C5A44552
- k. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84;

- samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000738; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 8C644680-0758-5116-88C5-04285FE2D036
- l. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000739; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: A04FF6C0-A8F4-57DB-AB9A-29188D19446E
- m. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000740; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 98EA0A47-989F-58E4-87D4-940EABBB90E4
- n. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000741; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 40B2A479-072E-5A50-AB72-8BF047BCBCD8
- o. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000742; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: B27D5538-AC7A-576A-8E36-DC95D2F45CA3
- p. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000743; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 8E460092-4CBA-53E9-B3E6-F9DF3A867313
- q. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000744; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 21C061FA-0670-5FC1-876A-CE51A3C2DB6B
- r. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest;

- individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000745; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F4D5359E-E11D-5663-845D-C5D6D0DADEE9
- s. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000746; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1A8D3C6F-93B2-5A90-ACC9-5A3DAEF080C5
- t. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000747; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5B60E297-2712-50C6-AC23-CC98729E78A8
- u. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000748; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 2ABC0B49-9902-52E8-B2BA-0D7753711519
- v. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000749; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4C6D23D9-1CC0-5670-B545-9A92243B93FC
- w. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000750; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C9A580C8-0644-53F9-BA66-CCAE0DD85A0
- x. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000751; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 19C1936B-7A87-5E1B-9F0C-CBE4F960AEF8
- y. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000752; recordedBy:

Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9D6636CF-E76B-58D4-AEC8-70AED35595F

z. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000753; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4565BCB4-A871-50CC-AD88-BA2A85782249

aa. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000754; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F8D5A786-D6E7-5A51-BB8B-9B379C628E56

**Distribution:** Azerbaijan, Armenia, Bulgaria, Georgia, Greece, Romania, South European Territory of Russia, Ukraine, Asian Türkiye, Iran (Schuh 2020); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 13, as *Dechomus sulcicollis*), from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz (1971): 100, as *Dechomus sulcicollis*) and from Belasitsa Mountains (Guéorguiev (2011): 13). In the present study, we report this species from Strandzha, Belasitsa and Sarnena Gora Mountains (Fig. 1).



Figure 1.

*Pycnomerus sulcicollis* (Germar, 1823) from Sarnena Gora Mountains, Bulgaria (female, BFUS-COL000738). Scale bar: 1 mm.

## ***Pycnomerus terebrans* (G.-A. Olivier, 1790)**

### **Materials**

- a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000755; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 783D4245-1CD0-5CF9-8FA4-298F4A1E46C9
- b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000756; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: E54AFD85-732A-5B2C-A1E5-D579B6E3F701
- c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000757; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: D64500A4-B5CD-5E67-84EE-B784766094B5
- d. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000758; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 874C599B-B9C3-5BF9-9A0E-FC32B8648C60
- e. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000759; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: BEAA2B87-1F2A-5413-92C6-61FE0059EFC3
- f. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000760; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: E3C3E059-F271-5EDE-B73F-7C92E05B610D
- g. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 600 m; decimalLatitude: 42.678083; decimalLongitude: 23.340583; geodeticDatum: WGS84; samplingProtocol: under pine bark; verbatimEventDate: 15.vi.2021; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000761; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2022; occurrenceID: 676A9DB6-7022-59DB-A8B9-B9B7B39F5CB9
- h. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 600 m; decimalLatitude: 42.678083; decimalLongitude: 23.340583; geodeticDatum: WGS84; samplingProtocol: under pine bark; verbatimEventDate: 15.vi.2021; habitat: mixed forest; individualCount: 1; sex:



- specimen; catalogNumber: BFUS-COL000762; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; datelIdentified: 2022; occurrenceID: CC508DFB-F1CB-5882-84B3-A46DDE5C78F6
- i. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000763; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: B0E165A7-5705-54E1-826F-B8D9BACC4995
  - j. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 608 m; decimalLatitude: 42.678200; decimalLongitude: 23.340550; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000764; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: 0EF78271-3F68-5E87-B587-C0790132516A
  - k. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 24.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000765; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: 5F0C1C1F-E106-583C-A082-B7BE53B9E648
  - l. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 28.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000766; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: AD463E17-B1CD-5F87-8625-B5C70519F277
  - m. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 28.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000767; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: A02C5659-1A13-5C9F-AA83-83598CC2C240
  - n. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000768; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; datelIdentified: 2026; occurrenceID: D8951E33-77E4-5BB8-BAE4-734342340FF6
  - o. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000769; recordedBy: Denis Gradinarov;

- identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 330AAF11-79A1-53B2-AFBA-6F009058EE4D
- p. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000770; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 56324A8F-34C9-5780-A8CE-FA23FF45A9FD
- q. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000771; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 350E2E3F-14A0-5359-97DE-66B6BEB0C08F
- r. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000772; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 6BA91968-3A03-562E-99F3-8B772516E0E8
- s. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000773; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2639A85-448C-5C72-B8BA-78460DFE02E8
- t. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000774; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 00BFD72E-B95A-5394-AC66-EC5631523279
- u. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000775; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 400B16B7-2469-52E4-B757-F6EAC87A31FD
- v. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000776; recordedBy: Denis Gradinarov & Ognyan

Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 61E99387-8D8E-53AB-A169-24FF19103CD6

- w. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000777; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4FDFC4E6-BA25-5BBC-87B7-612D908BAFCA
- x. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000778; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FFB40030-4526-58A1-BB83-E2C1FE5D6A2C
- y. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 59 m; decimalLatitude: 43.236967; decimalLongitude: 28.003917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 11.vii.2024; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000779; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 390A651D-D8DE-5C48-8F4C-73EC16EDC5B6

**Distribution:** Azerbaijan, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Germany, Greece, Hungary, Italy, Poland, Portugal, Slovakia, Slovenia, Russia (Central and South European Territory), Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Iran (Schuh 2020); Moldova (Bacal 2023, Bacal and Buşmachi 2025); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 14), from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz (1971): 100) and from Belasitsa Mountains (Guéorguiev (2011): 13). Here, we provide data on the occurrence of *P. terebrans* in city parks of Sofia (Fig. 2) and Varna.

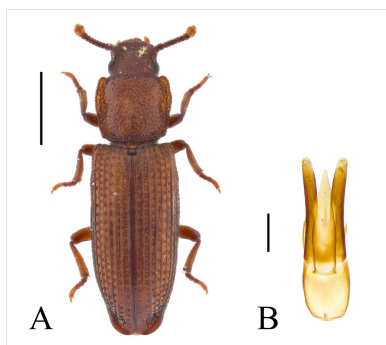


Figure 2.

*Pycnomerus terebrans* (G.-A. Olivier, 1790) from Sofia City, Bulgaria: **A** male (BFUS-COL000768); **B** aedeagus of the same specimen. Scale bars: 1 mm (A); 0.1 mm (B).

## Subfamily Colydiinae Billberg, 1820

### Tribe Colydiini Billberg, 1820

### Genus *Aulonium* Erichson, 1845

### *Aulonium ruficorne* (A. G. Olivier, 1790)

#### Material

- a. country: Bulgaria; stateProvince: Haskovo; municipality: Topolovgrad; locality: Sakar Mountains, SE of Ustrem Village; verbatimElevation: 215 m; decimalLatitude: 41.972583; decimalLongitude: 26.483117; geodeticDatum: WGS84; samplingProtocol: under peeled pine bark; verbatimEventDate: 14.iv.2023; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000780; recordedBy: Denis Gradinarov & Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C9D0BD33-2645-5BDD-9409-DDD686290C16

**Distribution:** Azerbaijan, Armenia, Bulgaria, Croatia, France, Germany, Greece, Hungary, Italy, North Macedonia, Romania, Spain, South European Territory of Russia, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Iran, Israel, Lebanon, Turkmenistan, Algeria, Morocco, Tunisia (Schuh 2020); Portugal (Molina 2023).

**Notes:** This species has been previously reported for Bulgaria without exact locality (Ślipiński and Schuh 2008, Schuh 2020). In the present study, we report *A. ruficorne* from Sakar Mountains (Fig. 3) and, thus, confirm the presence of this species for the country.



Figure 3.

*Aulonium ruficorne* (G.-A. Olivier, 1790) from Sakar Mountains, Bulgaria (male, BFUS-COL000780). Scale bar: 1 mm.

***Aulonium trisulcum* (Geoffroy, 1785)****Materials**

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000781; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 975B1C35-87E5-5BA4-B1DD-8D96921A40E0
- b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000782; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7E419537-05C7-59CD-85D5-9B450A3A812A
- c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000783; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AD72B4CD-E3DA-587A-8C4C-EA50D07CF643
- d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 95 m; decimalLatitude: 41.46812; decimalLongitude: 23.26900; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 20.vi.2013–21.vi.2013; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000784; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 8D88AE83-1C11-57EA-85BF-1C87D5F89EF9
- e. country: Bulgaria; stateProvince: Varna; municipality: Dolni Chiflik; locality: Black Sea coast, E of Novo Oryahovo Village; verbatimElevation: 8 m; decimalLatitude: 42.99181; decimalLongitude: 27.89002; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 03.vii.2013–04.vii.2013; habitat: sandy beach next to longos forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000785; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 367EFFBA-6706-53ED-8B1A-F221FFCA4D6C
- f. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Gorge, SW of Zemen; verbatimElevation: 593 m; decimalLatitude: 42.471056; decimalLongitude: 22.731361; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 05.vii.2015; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000786; recordedBy: Denis Gradinarov & Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: C9B3867A-0CBE-50E8-9DB3-26BF4E5108FF
- g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SW of Lilyanovo Village; verbatimElevation: 470 m; decimalLatitude: 41.612467; decimalLongitude: 23.311917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 27.vi.2019–28.vi.2019; habitat: deciduous grove; individualCount: 1; sex: female; catalogNumber: BFUS-COL000787; recordedBy:

- Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BB0E230C-901E-5B63-9F27-69E42075263A
- h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Sandanski-Petrich Valley, E of Novo Hodzhovo Village; verbatimElevation: 124 m; decimalLatitude: 41.40721; decimalLongitude: 23.40666; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 30.vi.2019–01.vii.2019; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000788; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EDAF9236-2F23-5756-9128-6F641E61E4D7
- i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000789; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1673B0BB-B411-5BAB-8F7C-481C177B256E
- j. country: Bulgaria; stateProvince: Haskovo; municipality: Topolovgrad; locality: Sakar Mountains, W of Ustrem Village; verbatimElevation: 101 m; decimalLatitude: 42.024167; decimalLongitude: 26.451550; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 28.vi.2022; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000790; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FCE55DCA-2A4A-5ECB-B0D6-A01DA0371385
- k. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 47 m; decimalLatitude: 43.233750; decimalLongitude: 28.003617; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 13.vii.2024; habitat: meadow; individualCount: 1; sex: female; catalogNumber: BFUS-COL000791; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5453AEF3-6D75-55B0-ABA0-59737A7ED0EB

**Distribution:** Armenia, Austria, Belgium, Bosnia and Herzegovina, Czechia, France, Germany, Great Britain, Hungary, Italy, The Netherlands, North Macedonia, Norway, Poland, Russia (South, Central and North European Territory), Slovakia, Sweden, Switzerland, Ukraine, Iran (Schuh 2020); Spain, Portugal (Molina 2023); Luxembourg (Gerend 2023); Moldova (Bacal and Buşmachi 2025); Bulgaria (present study).

**Notes:** This species has been previously reported for Bulgaria without exact locality by Anonymous (1907): 300, as *Aulonium sulcatum* [(G.-A. Olivier, 1790)]. The species is omitted for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Here, we report *A. trisulcum* from several localities in south-western Bulgaria, from Sakar Mountains and from the Black Sea coast (Fig. 4) and, thus, confirm the presence of this species for the country. In our study, all the specimens were collected at light.



Figure 4.

*Aulonium trisulcum* (Geoffroy, 1785) from Varna, Bulgaria (female, BFUS-COL000791). Scale bar: 1 mm.

## Genus *Colydium* Fabricius, 1792

### *Colydium elongatum* (Fabricius, 1787)

**Distribution:** Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, Denmark, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Lithuania, North Macedonia, The Netherlands, Poland, Romania, Russia (European and Asian Territory), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Cyprus, Iran, Syria, Algeria, Morocco, Tunisia (Schuh 2020).

**Notes:** In Bulgaria, *C. elongatum* has been previously recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16), from the vicinity of Ropotamo River mouth (Black Sea coast) (Dajoz (1971): 100), from Kresnenski Prolom Gorge, Maslen Nos Cape, Strandzha Mountains (Węgrzynowicz 1999: 287) and from north-eastern Bulgaria (without exact localities) (Parmain et al. (2024): 300 (map)). *Colydium elongatum* is similar in habitus to recently described *C. noblecourti* Parmain, Eckelt & Schuh, 2024 and some of the earlier records may, in fact, refer to the second species. Both specimens found in the historical collection of Dimitar Joakimov (NMNHS) and previously identified as *C. elongatum*, after revision of the identification turned out to be *C. noblecourti* (Fig. 5).

### *Colydium filiforme* Fabricius, 1792

**Distribution:** Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, France, Germany, Georgia, Greece, Hungary, Italy, Latvia,

Liechtenstein, Norway, Poland, Russia (South European and Asian Territory), Slovakia, Spain, Sweden, Switzerland, Ukraine, Iran (Schuh 2020); Central European Territory of Russia (Egorov et al. 2020); Asian Türkiye (Harman and Avcı 2023); Serbia (Marczak and Peptowska-Marczak 2025).

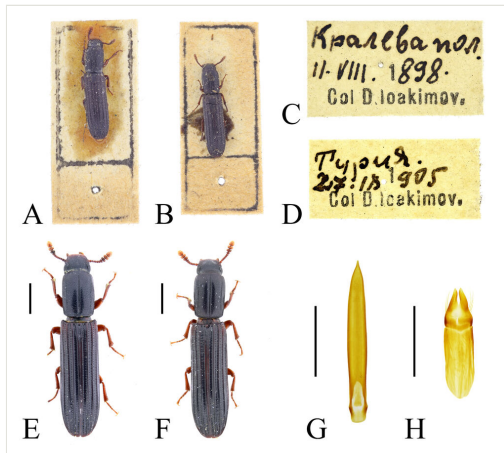


Figure 5.

Specimens of *Colydium noblecourtii* Parmain, Eckelt & Schuh, 2024 preserved in the historical collection of Dimitar Joakimov, NMNHS. **A** male from Kraveva Polyana locality (specimen 1); **B** female from Turiya locality (specimen 2); **C** original label (specimen 1); **D** original label (specimen 2); **E** specimen 1 (re-mounted); **F** specimen 2 (re-mounted); **G** median lobe (specimen 1); **H** tegmen (specimen 1). Scale bars: 1 mm (E, F); 0.5 mm (G, H).

**Notes:** In Bulgaria, this species has been recorded from Slanchev Bryag seaside resort (Palm 1966: 22) and Belasitsa Mountains (Guéorguiev 2011: 13).

## *Colydium noblecourtii* Parmain, Eckelt & Schuh, 2024

### Materials

- a. country: Bulgaria; locality: Kraveva Pol[yana]; verbatimLocality: Kraveva pol. [in Bulgarien]; verbatimEventDate: II–VIII.1898; individualCount: 1; sex: male; recordedBy: Dimitar Joakimov; previousIdentifications: *Colydium elongatum* F.; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EF75C028-3DF3-551F-A91C-02CF522A2F07
- b. country: Bulgaria; stateProvince: Stara Zagora; municipality: Pavel Banya; locality: [Sarnena Gora Mountains], Turiya Village; verbatimLocality: Turiya. [in Bulgarien]; verbatimEventDate: 27.IX.1905; individualCount: 1; sex: female; recordedBy: Dimitar Joakimov; previousIdentifications: *Colydium elongatum* F.; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7489FC00-B145-51F7-B7FE-D61CA16C1592
- c. country: Bulgaria; stateProvince: Sliven; municipality: Tvarditsa; locality: Central Stara Planina Mountains, near Bukovets Hut; verbatimElevation: 1052 m; decimalLatitude: 42.789225; decimalLongitude: 25.890651; geodeticDatum: WGS84; samplingProtocol: at night on tree trunks; verbatimEventDate: 27.viii.2009; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000792; recordedBy: Ognyan



Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 24DAE36B-7B31-5552-875A-9FE2BBD573AE

**Distribution:** Austria, Andorra, Bosnia, Croatia, Czechia, France, Germany, Iran, Italy, Slovakia, Slovenia, Spain, Asian part of Türkiye (Parmain et al. 2024); Serbia (Marczak and Peplowska-Marczak 2025); Russia (Kaliningrad Oblast) (Alekseev 2025); Belgium (Thomaes et al. 2025); Bulgaria (present study).

**Notes:** In the present study, we report *C. noblecourtii* from "Kraleva polyana" (probably, Kraleva livada locality near Kameno Pole Village, in north-eastern Bulgaria), from Sarnena Gora Mountains and from Central Stara Planina Mountains (Fig. 5; Fig. 6). New records for Bulgaria.

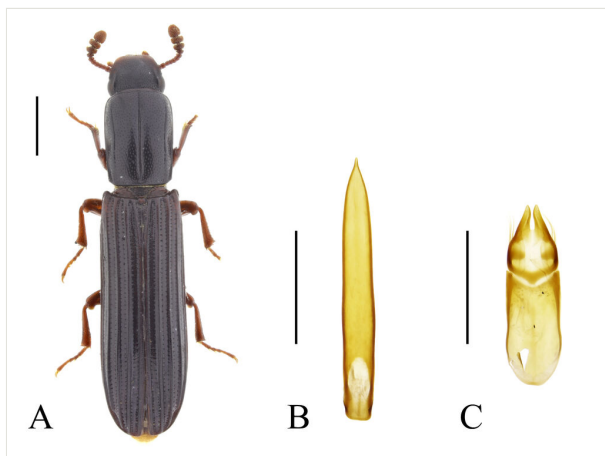


Figure 6.

*Colydium noblecourtii* Parmain, Eckelt & Schuh, 2024 from Central Stara Planina Mountains, Bulgaria: **A** male (BFUS-COL000792); **B** median lobe of the same specimen; **C** tegmen of the same specimen. Scale bars: 1 mm (A); 0.5 mm (B, C).

## Tribe Orthocerini Blanchard, 1845 (1820)

### Genus *Orthocerus* Latreille, 1796

#### *Orthocerus clavicornis* (Linnaeus, 1758)

##### Material

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Alibotush Mt [= Slavyanka Mts], Souhoto Ezero, near Gotsev Vrah Peak; verbatimElevation: 2065 m; samplingProtocol: pitfall traps; verbatimEventDate: 5.vii.2006–10.viii.2006; individualCount: 1; sex: female; catalogNumber: BFUS-COL000793; recordedBy: Nikolay Simov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 7C004743-F2BF-527E-884D-51D5374A1D08

**Distribution:** Austria, Belgium, Bosnia and Herzegovina, Belarus, Croatia, Czechia, Denmark, Finland, France, Germany, Great Britain, Hungary, Latvia, Liechtenstein, Luxembourg, The Netherlands, Norway, Italy, Ireland, Poland, Romania, Russia (Central European Territory, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, “Caucasus”, Asian Türkiye, Mongolia (Schuh 2020); Iran (Otero and Ghahari 2020); Belgium (Thomaes et al. 2025); Bulgaria (Angelov 1968a; present study).

**Notes:** In Bulgaria, this species has been reported from several localities in Western Rhodopes Mountains and from Izdremets Peak in Stara Planina Mountains (Angelov 1968a: 99). The species is omitted for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Here, we report *O. clavicornis* from Slavyanka Mountains (Fig. 7) and confirm the presence of this species in Bulgaria.



Figure 7.

*Orthocerus clavicornis* (Linnaeus, 1758) from Slavyanka Mountains, Bulgaria (female, BFUS-COL000793). Scale bar: 1 mm.

## Tribe Rhopalocerini Reitter, 1911

### Genus *Rhopalocerus* W. Redtenbacher, 1842

#### *Rhopalocerus rondanii* (A. Villa & J. B. Villa, 1833)

**Distribution:** Austria, Bulgaria, Croatia, Czechia, Germany, Greece, Hungary, Italy, Portugal, Romania, Slovakia, Ukraine, Serbia and Montenegro (Schuh 2020); Iran (Farashiani et al. 2022); Moldova (Bacal 2023, Bacal and Buşmachi 2025).

**Notes:** The species has been recorded for Bulgaria without exact locality (Ślipiński and Burakowski 1988: 92, Ślipiński and Schuh 2008: 80, Schuh 2020: 69).

## Tribe Synchritini Erichson, 1845

### Genus *Bitoma* Herbst, 1793

#### *Bitoma crenata* (Fabricius, 1775)

##### Materials

- a. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: [Zemen Gorge], near Zemen; verbatimLocality: near Zemen; samplingProtocol: under bark; verbatimEventDate: 15.iv.2000; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000794; recordedBy: Stoyan Dimitrov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 3E0F1F2C-CB4E-5F64-9339-76B85D8607C3
- b. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: [Zemen Gorge], near Zemen; verbatimLocality: near Zemen; samplingProtocol: under bark; verbatimEventDate: 15.iv.2000; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000795; recordedBy: Stoyan Dimitrov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EC7A4D03-68AE-5048-9A6B-B28BF2116FD5
- c. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000796; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 4090C09F-759D-5027-AFB2-936681F90E25
- d. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000797; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: AA3C1630-A03B-5931-8E41-629B3704E499
- e. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000798; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: F7EBD4BB-DDBA-57A1-B296-2CEDFE16E36F
- f. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000799; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 57087641-23D9-56DC-8413-166042393377
- g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex:

- specimen; catalogNumber: BFUS-COL000800; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D186FD7D-D947-591F-B139-A3CCEAD45B2F
- h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000801; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 99EB2DB0-4701-5DE0-8405-70EB47DBC7E0
- i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000802; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 96C2D2ED-A7FF-5AC2-B6CD-87B522D9EC87
- j. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000803; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DA421E1B-9BAA-5864-B4EE-4D531EC05D1A
- k. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000804; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 631DE704-E427-5456-9EC7-4ADC9BC21E37
- l. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000805; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 8ABE7269-B9B8-5F27-BDED-E4F6CE63186E
- m. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000806; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BFC69074-0F18-5E97-B0A3-9C6EC9CC3D43
- n. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000807; recordedBy: Denis Gradinarov; identifiedBy: Denis

- Gradinarov; dateIdentified: 2026; occurrenceID: 9A30EA4F-B196-5C3A-B3F6-9FCD6584943E
- o. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000808; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: A202072A-0896-5999-9656-4B3046D2602C
- p. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000809; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 01DA15EE-2DDA-5796-922C-219E8AB47AFA
- q. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000810; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9BF7E1DA-4925-5F7A-A84D-10396C514BC2
- r. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000811; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 770B80CD-6819-5B7D-9029-F59A7E993267
- s. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000812; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 83A39F11-BB4C-5A13-887B-5827A9B7CB23
- t. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000813; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1DF35888-B7C0-5D13-9636-237C04489AED
- u. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000814; recordedBy: Denis Gradinarov; identifiedBy: Denis

- Gradinarov; dateIdentified: 2026; occurrenceID: 0D0417EB-0FB6-52E3-9FD5-8FB7AF64B7B9
- v. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000815; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 600E91DA-8C9E-5271-837C-6E01615B4535
- w. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000816; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F172DC6F-5EA4-5F4B-A140-6E362A44DC69
- x. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000817; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9A8ECEE4-1408-51A0-9E1C-E9E2506F74A4
- y. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000818; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B9AF2DEF-1439-546B-B0BC-3CBBF0479D03
- z. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000819; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 45F01E23-A8FE-5B3B-B358-A1C53A65EBA0
- aa. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000820; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F7C28627-A4DA-581E-AD5D-DECE644CB69B
- ab. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000821; recordedBy: Denis Gradinarov; identifiedBy: Denis

- Gradinarov; dateIdentified: 2026; occurrenceID: 6EC438E4-DE35-54BB-9332-E2ADAF3DAC18
- ac. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000822; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CC4F20C4-E9EA-581E-86DA-0C2A30C053C1
- ad. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000823; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 67F63F77-7225-5410-B686-72179C5EFEC5
- ae. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000824; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5D56D73E-1FCC-5B1F-8E0D-F1D86862338A
- af. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000825; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C0A113FA-6347-5587-A159-A7BD05C8EE7A
- ag. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000826; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4A2F647A-658E-523F-B2A0-C901EC752645
- ah. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000827; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C38CB674-27F0-58A1-890D-D71627AF4DF0
- ai. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000828; recordedBy: Denis Gradinarov; identifiedBy: Denis

- Gradinarov; dateIdentified: 2026; occurrenceID: CA18FD4E-FEF1-5974-ACAB-4B89D62D6A59
- aj. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000829; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 0CBC0212-880A-53B7-85FF-425C4055E099
- ak. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000830; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: A7086FA7-4751-583C-8152-30AD3FBC8F4A
- al. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000831; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AFD5FF2F-EEFA-5D8D-BAAB-02372F826D43
- am. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000832; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1FE9C9B6-EE92-5B00-A5A0-4C96BD9AF2CF
- an. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000833; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1006C246-64CE-5AED-93C9-302F72ED8D07
- ao. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 98 m; decimalLatitude: 41.467211; decimalLongitude: 23.268465; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus alba*; verbatimEventDate: 29.v.2013; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000834; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2BDE6A-4E3B-5A1C-9A47-EEB2371D40E1
- ap. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, NE of Kalimantsi Village; verbatimElevation: 300 m; decimalLatitude: 41.46451; decimalLongitude: 23.49091; geodeticDatum: WGS84; samplingProtocol: under alder bark; verbatimEventDate: 28.vi.2019; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000835; recordedBy: Ognyan Sivilov;



- identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F68BFB36-6A1A-55F0-9F8C-B998CF233897
- aq. country: Bulgaria; stateProvince: Pleven; municipality: Gulyantsi; locality: Western Danubian Plain, N of Gulyantsi; verbatimElevation: 25 m; decimalLatitude: 43.68686598; decimalLongitude: 24.70856; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 18.v.2021; habitat: clearing area; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000836; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9F666FC3-7089-5513-9062-944B78F8B31A
- ar. country: Bulgaria; stateProvince: Pleven; municipality: Gulyantsi; locality: Western Danubian Plain, N of Gulyantsi; verbatimElevation: 25 m; decimalLatitude: 43.68686598; decimalLongitude: 24.70856; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 18.v.2021; habitat: clearing area; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000837; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 62FBE2E2-85A3-5D6E-AA06-AB44E8FBF326
- as. country: Bulgaria; stateProvince: Pleven; municipality: Dolna Mitropolia; locality: Middle Danubian Plain, N of Riben Village; verbatimElevation: 41 m; decimalLatitude: 43.54513202; decimalLongitude: 24.61941; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 19.v.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000838; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2444C13-73E1-5135-9562-FB72DEF9D60C
- at. country: Bulgaria; stateProvince: Silistra; municipality: Glavinitsa; locality: Eastern Danubian Plain, N of Dolno Ryahovo Village; verbatimElevation: 15 m; decimalLatitude: 44.08248402; decimalLongitude: 26.78935; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000839; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B3B420F6-546C-5723-A3D4-7EF99126AA37
- au. country: Bulgaria; stateProvince: Silistra; municipality: Glavinitsa; locality: Eastern Danubian Plain, N of Dolno Ryahovo Village; verbatimElevation: 15 m; decimalLatitude: 44.08248402; decimalLongitude: 26.78935; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000840; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 152A0296-A02D-5CC2-86F6-C8FCDF497E64
- av. country: Bulgaria; stateProvince: Ruse; municipality: Borovo; locality: Eastern Danubian Plain, N of Batin Village; verbatimElevation: 18 m; decimalLatitude: 43.67351001; decimalLongitude: 25.6888059; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000841; recordedBy: Ognyan Sivlov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5AF446EC-8903-55E9-8D7B-7C1A62B3E22F
- aw. country: Bulgaria; stateProvince: Vratsa; municipality: Oryahovo; locality: Western Danubian Plain, N of Galovo Village; verbatimElevation: 43 m; decimalLatitude: 43.66895101; decimalLongitude: 24.07607599; geodeticDatum: WGS84; samplingProtocol: on trunk of living *Populus alba*; verbatimEventDate: 08.vii.2021; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000842;

- recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 77D90DAE-37D4-56A9-9D9A-C764F8A1D056
- ax. country: Bulgaria; stateProvince: Vratsa; municipality: Oryahovo; locality: Western Danubian Plain, N of Galovo Village; verbatimElevation: 43 m; decimalLatitude: 43.66895101; decimalLongitude: 24.07607599; geodeticDatum: WGS84; samplingProtocol: on trunk of living *Populus alba*; verbatimEventDate: 08.vii.2021; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000843; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 644930BF-DEA9-50DD-B7A2-2FD1BA7546A0
- ay. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Simittli; locality: Maleshevska Planina Mountains, SW of Polena Village; verbatimElevation: 461 m; decimalLatitude: 41.833917; decimalLongitude: 23.094767; geodeticDatum: WGS84; samplingProtocol: at flight; verbatimEventDate: 25.iv.2022; habitat: roadside vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000844; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 123836BD-FC3A-5BE2-A93B-FA982822A9BC
- az. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Lozenska Planina Mountains, N of Dolni Pasarel Village; verbatimElevation: 886 m; decimalLatitude: 42.567250; decimalLongitude: 23.499283; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 07.v.2023; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000845; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 458B6F85-246E-5E13-9CF8-71328D2E3202
- ba. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Lozenska Planina Mountains, N of Dolni Pasarel Village; verbatimElevation: 886 m; decimalLatitude: 42.567250; decimalLongitude: 23.499283; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 07.v.2023; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000846; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: E4D99C03-47E4-5FF1-9A53-3C148F9E7312

**Distribution:** Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Liechtenstein, Kazakhstan, Malta, North Macedonia, Moldova, The Netherlands, Norway, Poland, Romania, Russia (South, Central and North European Territory, East and West Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Kazakhstan, Mongolia, Algeria, Tunisia, Nearctic Region (Schuh 2020); Iran (Otero and Ghahari 2020, Farashiani et al. 2022).

**Notes:** In Bulgaria, this species has been recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16, as *Ditoma crenata*) and from Maleshevska Planina Mountains (Guéorguiev and Ljubomirov 2009: 254). Here, we record *B. crenata* from a number of localities from Danubian Plain (Fig. 8) and south-western Bulgaria.



Figure 8.

*Bitoma crenata* (Fabricius, 1775) from western Danubian Plain, Bulgaria (BFUS-COL000836). Scale bar: 1 mm.

## Genus *Colobicus* Latreille, 1807

### *Colobicus hirtus* (Rossi, 1790)

#### Materials

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000847; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D81E3163-0D57-5463-8170-D40FD6828FC5
- b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 615 m; decimalLatitude: 42.678067; decimalLongitude: 23.340433; geodeticDatum: WGS84; samplingProtocol: under bark of *Quercus rubra*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000848; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B1A9649D-6CE5-5D33-B989-435F74B2870B

**Distribution:** Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Great Britain, Germany, Greece, Hungary, Italy, Liechtenstein, Poland, Russia (South, Central and North European Territory, West Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Afghanistan, Japan, China (Northern Territory), Asian Türkiye, Morocco (Schuh 2020); Romania (Merkel et al. 2016); Iran (Otero and Ghahari 2020, Farashiani et al. 2022); Moldova (Bacal

2023, Bacal and Buşmachiu 2025); Kazakhstan (Temreshev 2025); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species has been recorded from Varna (Anonymous (1907): 300, as *Colobicus emarginatus*), Emine Cape (Palm 1966: 14), from the vicinity of Ropotamo River mouth (Black Sea coast) (Dajoz 1971: 101), from Maleshevska planina Mountains (Bencheva and Doychev 2022) and from southern Dobrudzha (Trigortsi and Dropla Villages) (Guéorguiev et al. 2026: 4). In the present study, we report *C. hirtus* from the vicinity of Paril Village (between Pirin and Slavyanka Mountains) (Fig. 9) and from Sofia City.



Figure 9.

*Colobicus hirtus* (Rossi, 1790) from Paril Village, Bulgaria (male, BFUS-COL000847). Scale bar: 1 mm.

## Genus *Endophloeus* Dejean, 1834

### *Endophloeus markovichianus* (Piller & Mitterpacher, 1783)

**Distribution:** Austria, Bosnia and Herzegovina, Bulgaria, Croatia, France, Great Britain, Greece, Hungary, Italy, North Macedonia, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Ukraine, Serbia and Montenegro, European Türkiye, Algeria, Morocco, Tunisia (Schuh 2020); Iran (Otero and Ghahari 2020); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species is known from Emine Cape (Palm 1966: 13), Borovets (Rila Mountains), Petrohan and from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz 1971: 99).

***Endophloeus squarrosus* Germar, 1847**

**Distribution:** Greece, Serbia and Montenegro, European Türkiye (Schuh 2020); Bulgaria (Roubal 1931).

**Notes:** In Bulgaria, this species has been recorded from Rila Mountains (Roubal 1931: 453). The species is omitted for the country in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008, Schuh 2020).

**Genus *Langelandia* Aubé, 1842****Subgenus *Langelandia* Aubé, 1842*****Langelandia (Langelandia) anophthalma* Aubé, 1842****Materials**

- a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 696 m; decimalLatitude: 42.792450; decimalLongitude: 23.492717; geodeticDatum: WGS84; samplingProtocol: under nest of *Spermophilus citellus* L.; verbatimEventDate: 17.vii.2019; habitat: pasture; individualCount: 1; sex: female; catalogNumber: BFUS-COL000849; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 003A78CA-906A-5126-BCF5-659E9D152C7C
- b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 690 m; decimalLatitude: 42.791567; decimalLongitude: 23.503700; geodeticDatum: WGS84; samplingProtocol: in nest of *Spermophilus citellus* L.; verbatimEventDate: 02.iii.2021; habitat: pasture; individualCount: 1; sex: male; catalogNumber: BFUS-COL000850; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1ACD2470-950D-5A54-95C8-5A1ED3F1F143
- c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 699 m; decimalLatitude: 42.792633; decimalLongitude: 23.491717; geodeticDatum: WGS84; samplingProtocol: in burrow of *Spermophilus citellus* L.; verbatimEventDate: 02.iii.2021; habitat: pasture; individualCount: 1; sex: male; catalogNumber: BFUS-COL000851; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 38470FDF-8C1A-5968-A9CE-4C6ACDD8002

**Distribution:** Austria, Czechia, Belgium, Bosnia and Herzegovina, France, Great Britain, Germany, Greece, Hungary, Italy, The Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Switzerland, Ukraine, Serbia and Montenegro (Schuh 2020); Bulgaria (Bekchiev and Guéorguiev 2015; present study).

**Notes:** *Langelandia anophthalma* is a highly variable species with a wide distributional range in Europe (Dajoz 1969; Orousset 1989). We consider its relatively larger body size and the morphology of the aedeagus as the main features for distinguishing it from other similar species in the subgenus *Langelandia* (Dajoz 1969;

Orousset 1989). For Bulgaria, *L. anophthalma* is mentioned without exact locality by Bekchiev and Guéorguiev (2015): 339. The species is not listed for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Herein, we confirm the presence of *L. anophthalma* in Bulgaria and record the notable cases of the species inhabiting the burrows (including the nesting materials) of the European souslik (*Spermophilus citellus* L.) (Fig. 10).

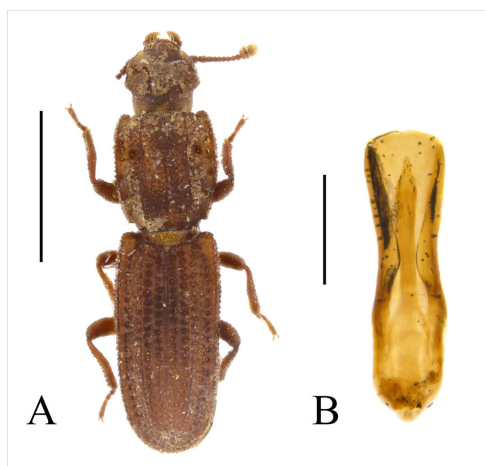


Figure 10.

*Langelandia anophthalma* Aubé, 1842 from Sofia Valley, Bulgaria: **A** male (BFUS-COL000850); **B** aedeagus of the same specimen. Scale bars: 1 mm (A); 0.1 mm (B).

## Genus *Nosodomodes* Reitter, 1922

### *Nosodomodes diabolicus* (Schaufuss, 1862)

#### Materials

- a. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.47418; decimalLongitude: 25.22207; geodeticDatum: WGS84; samplingProtocol: under oak bark; verbatimEventDate: 24.ix.2018; habitat: deciduous forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000852; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 9CA8EE95-B2EA-5224-9612-5ED824C1F009
- b. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.255567; decimalLongitude: 26.887117; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000853; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 33A5A1C8-C902-5D5C-B92E-7070BAFF8C80

- c. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.255567; decimalLongitude: 26.887117; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000854; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FD760EFC-5DAE-5A40-B513-F5C659705480
- d. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.254167; decimalLongitude: 26.888433; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000855; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 626D990B-2CB6-50C4-B1FD-E7692F0CC7BD

**Distribution:** Armenia, Bulgaria, Greece, North Macedonia, Romania, Ukraine, Serbia and Montenegro, Asian Türkiye (Schuh 2020); Iran (Otero and Ghahari 2020); Moldova (Bacal 2023, Bacal and Buşmachi 2025).

**Notes:** In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 14, as *Corticus diabolicus*) and from Petrohan (Dajoz (1971): 99, as *Corticus diabolicus*). Here, we record *N. diabolicus* from Sarnena Gora Mountains (Fig. 11) and from Shumensko Plato Nature Park.

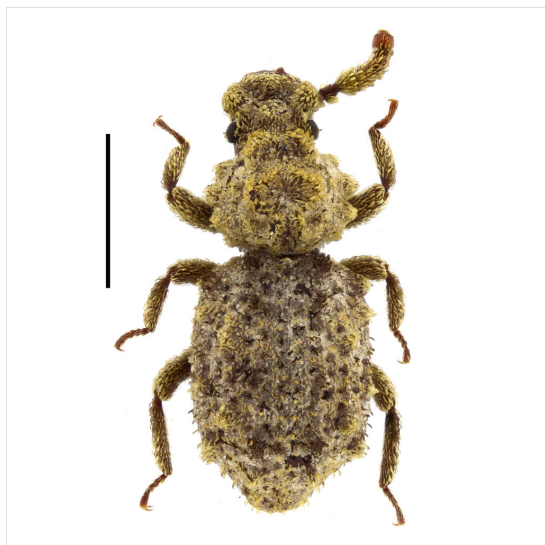


Figure 11.

*Nosodomes diabolicus* (Schaufuss, 1862) from Sarnena Gora Mountains, Bulgaria (male, BFUS-COL000852). Scale bar: 1 mm.

## *Nosodomodes tuberculatus* (Germar, 1832)

### Materials

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, Popovi Livadi Village; verbatimElevation: 1430 m; decimalLatitude: 41.552674; decimalLongitude: 23.638117; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 18.vi.2012–20.vii.2012; habitat: pine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000856; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1F942689-81BC-56A4-8DDF-D4BBA3327E27
- b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, Popovi Livadi Village; verbatimElevation: 1430 m; decimalLatitude: 41.552674; decimalLongitude: 23.638117; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–17.x.2012; habitat: pine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000857; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BBC3A292-F373-5D99-BFAE-CA9B6693570C

**Distribution:** Bulgaria, Greece, North Macedonia, Romania, South European Territory of Russia, Ukraine (Schuh 2020).

**Notes:** In Bulgaria, this species has been recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16, as *Corticus tuberculatus*), Central Stara Planina Mountains (Kozya Stena Hut) (Angelov (1968b): 144, as *Corticus tuberculatus*) and from Belasitsa Mountains (Guéorguiev 2011: 13). Here, we record *N. tuberculatus* from Pirin Mountains (Fig. 12).



Figure 12.

*Nosodomodes tuberculatus* (Germar, 1832) from Pirin Mountains, Bulgaria (female, BFUS-COL000857). Scale bar: 1 mm.



## Genus *Synchita* Hellwig, 1792

### *Synchita humeralis* (Fabricius, 1792)

**Distribution:** Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Denmark, Finland, France, Great Britain, Germany, Hungary, Italy, Latvia, North Macedonia, Moldova, Norway, Poland, Romania, Russia (South, Central and North European Territory, East Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro (Schuh 2020).

**Notes:** In Bulgaria, this species has been recorded without exact localities (Ślipiński and Schuh 2008: 84; Schuh 2020: 75).

### *Synchita mediolanensis* A. Villa & J. B. Villa, 1833

#### Materials

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, above Samuilovo Village; verbatimElevation: 385 m; decimalLatitude: 41.367400; decimalLongitude: 23.091700; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 19.vi.2013–20.vi.2013; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000858; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4D526E38-B5C2-5339-9324-4BA6687C830A
- b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 95 m; decimalLatitude: 41.46812; decimalLongitude: 23.26900; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 20.vi.2013–21.vi.2013; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000859; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5A29A062-0212-5C76-BC70-A53CB7F12326
- c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, NE of Kalimantsi Village; verbatimElevation: 315 m; decimalLatitude: 41.465033; decimalLongitude: 23.488750; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 28.vi.2019–29.vi.2019; habitat: xerothermic vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000860; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9775951C-6EF0-50F7-9662-1519588AAE80
- d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000861; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7936D41E-E981-58B0-A207-2D29D811136F
- e. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen;

catalogNumber: BFUS-COL000862; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AB11B86E-C0CF-58E3-A303-02512993D770

- f. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 59 m; decimalLatitude: 43.236967; decimalLongitude: 28.003917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 11.vii.2024; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000863; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B226966D-538B-5C67-A0CA-35669D37D565

**Distribution:** Azerbaijan, Austria, Bulgaria, Czechia, France, Germany, Greece, Hungary, Italy, Portugal, Romania, Slovakia, Spain, South European Territory of Russia, Switzerland, Ukraine, Cyprus, Iran, Asian Türkiye, Algeria (Schuh 2020).

**Notes:** In Bulgaria, this species has been previously recorded without exact localities (Šlipiński and Schuh 2008: 84, Schuh 2020: 75). Herein, we report *S. mediolanensis* from Varna (Fig. 13) and from several localities in south-western Bulgaria, confirming the presence of the species in the country.

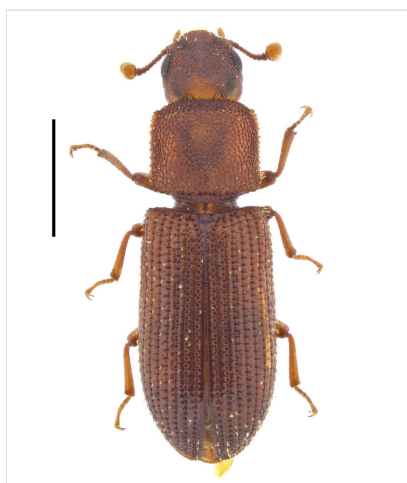


Figure 13.

*Synchita mediolanensis* A. Villa & J. B. Villa, 1833 from Varna, Bulgaria (male, BFUS-COL000863). Scale bar: 1 mm.

### ***Synchita separanda* (Reitter, 1882)**

**Distribution:** Armenia, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Finland, France, Great Britain, Germany, Hungary, Italy, The Netherlands, Norway, Poland, Romania, Russia (South, Central and North European Territory), Slovakia, Spain, Sweden, Switzerland, Ukraine, Iran, Asian Türkiye (Schuh 2020); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species has recently been reported from southern Dobrudzha (Trigortsi Village) (Guéorguiev et al. 2026: 4).

## *Synchita undata* Guérin-Méneville, 1844

### Materials

- a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000864; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DB2BF278-6A11-52F6-B052-490F0062AFB5
- b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000865; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 338CDE1F-0F9B-57B8-BDC0-AC4A702F0E69
- c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000866; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5CCBF18D-B321-513A-B602-06ABC63CF2B3
- d. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000867; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BCAEA6DE-9433-5D0E-AE73-FA8D32F0F82B
- e. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000868; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 12BE0BE1-DE76-5DCC-A0F1-7B5DC48161FA
- f. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000869; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EE5DAA97-971E-5BA4-92E3-BA73B38E6CC7

**Distribution:** Austria, Bosnia and Herzegovina, Bulgaria, Czechia, France, Great Britain, Germany, Hungary, Italy, Romania, Portugal, Slovenia, South European Territory of Russia, Switzerland, Ukraine (Schuh 2020); Poland (Ruta 2020); Iran (Farashiani et al. 2022); Moldova (Bacal 2023); Asian Türkiye (Sürgüt and Varli 2023); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, this species has recently been reported from southern Dobrudzha (Trigortsi Village) and from Petrich (Guéorguiev et al. 2026: 4). Here, we report *S. undata* from the city park in Sofia (Fig. 14).



Figure 14.

*Synchita undata* Guérin-Ménéville, 1844 from Sofia City, Bulgaria (male, BFUS-COL000864). Scale bar: 1 mm.

## *Synchita variegata* Hellwig, 1792

### Materials

- a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–16.v.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000870; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5E19F76A-F855-50F5-9978-247D31CC0A3B
- b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–16.v.2012; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000871; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 05E69F97-3B2E-503D-B3C8-DE67207C103D

- c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000872; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 68E5D325-3957-5287-B340-EE9C38C4FA1B
- d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000873; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B70A0769-8AFA-5BF5-A660-4EFC4FEDEC5F
- e. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000874; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BB5A32F5-A248-5767-8698-68933C728019
- f. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–18.x.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000875; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DBE03ADB-95C6-5EA9-AC6C-5062FEAB8667
- g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 896 m; decimalLatitude: 41.521558; decimalLongitude: 23.578914; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–18.x.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000876; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4804D9FC-87D2-5E6B-A3C6-CF7580665554
- h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, NW of Popovi Livadi Village; verbatimElevation: 1562 m; decimalLatitude: 41.556036; decimalLongitude: 23.629097; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 18.vi.2012–20.vii.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000877; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 2593CB5D-CCAF-5BE0-A6EF-20DC7EE3E312

**Distribution:** Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Great Britain, Germany, Greece, Hungary, Italy, Liechtenstein, The Netherlands, Portugal, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Algeria, Nearctic Region (introduced) (Schuh 2020); Poland (Ruta 2020); Belgium (Thomaes et al. 2025).

**Notes:** In Bulgaria, *S. variegata* is known from Varshets (Western Stara Planina Mountains) (Schuh 1998: 318). We found this species in beech forests of Pirin Mountains (Fig. 15).

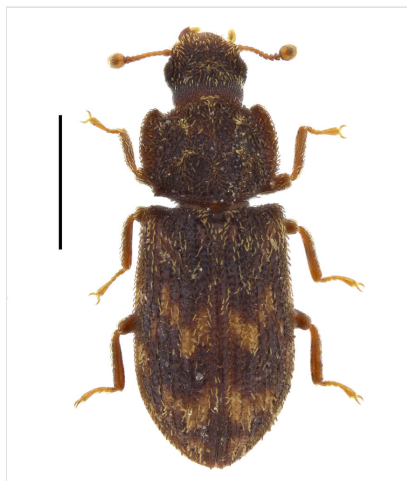


Figure 15.

*Synchita variegata* Hellwig, 1792 from Pirin Mountains, Bulgaria (male, BFUS-COL000872). Scale bar: 1 mm.

## Discussion

Twenty-one species of the family Zopheridae are listed for Bulgaria. One of these species – *Colydium noblecourtii* is newly reported for the country in the present study. For four species – *Aulonium trisulcum*, *Aulonium ruficorne*, *Langelandia anophthalma* and *Synchita mediolanensis*, we provide exact localities and thus confirm their occurrence in Bulgaria. *Orthocerus clavicornis* is reported for the second time from the country after nearly 60 years of lack of data. For the species *Rhopalocerus rondanii* and *Synchita humeralis*, no published exact localities in Bulgaria are available and further studies on their distribution in the country are desirable.

## Acknowledgements

The authors would like to thank Nikolay Simov (NMNHS) for kindly providing us a specimen of *Orthocerus clavicornis*. The authors are also grateful to Borislav Guéorguiev (NMNHS) for the opportunity to examine the historical collection of Dimitar Joakimov. This study is financed by the European Union-NextGenerationEU, through the National Recovery and Resilience Plan of the Republic of Bulgaria, project № BG-RRP-2.004-0008-C01.

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